

selection of a particular media item, supplies the media data (e.g., audio file) for the particular media item to a coder/decoder (CODEC) **813**. The CODEC **813** then produces analog output signals for a speaker **814**. The speaker **814** can be a speaker internal to the electronic device **800** or external to the electronic device **800**. For example, headphones or earphones that connect to the electronic device **800** would be considered an external speaker.

The electronic device **800** also includes a network/bus interface **811** that couples to a data link **812**. The data link **812** allows the electronic device **800** to couple to a host computer or to accessory devices. The data link **812** can be provided over a wired connection or a wireless connection. In the case of a wireless connection, the network/bus interface **811** can include a wireless transceiver. The media items (media assets) can pertain to one or more different types of media content. In one embodiment, the media items are audio tracks (e.g., songs, audio books, and podcasts). In another embodiment, the media items are images (e.g., photos). However, in other embodiments, the media items can be any combination of audio, graphical or visual content. Sensor **826** can take the form of circuitry for detecting any number of stimuli. For example, sensor **826** can include a Hall Effect sensor responsive to external magnetic field, an audio sensor, a light sensor such as a photometer, and so on.

The foregoing description, for purposes of explanation, used specific nomenclature to provide a thorough understanding of the described embodiments. However, it will be apparent to one skilled in the art that the specific details are not required in order to practice the described embodiments. Thus, the foregoing descriptions of the specific embodiments described herein are presented for purposes of illustration and description. They are not targeted to be exhaustive or to limit the embodiments to the precise forms disclosed. It will be apparent to one of ordinary skill in the art that many modifications and variations are possible in view of the above teachings.

What is claimed is:

1. A wearable electronic device, comprising:

a housing at least partially defining an internal volume, a cavity in communication with the internal volume, and an opening that leads from an ambient environment to the cavity;

a water impermeable membrane disposed between the internal volume and the cavity, the water impermeable membrane defining a sensor port; and

a sensor engine, the sensor engine comprising:

a first sensor to detect an amount of water in the cavity above a threshold, the first sensor disposed in the internal volume and in communication with the cavity through the sensor port; and

a second sensor to detect a property of the water in the cavity when the first sensor detects the amount of the water above the threshold; and

a processor in communication with the sensor engine, the processor programmed to identify a type of the water based at least in part on the detected property and to instruct the wearable electronic device to perform an action based at least in part on the identified type.

2. The wearable electronic device as recited in claim 1, further comprising:

a band coupled to the housing and arranged to secure the housing to a user.

3. The wearable electronic device as recited in claim 2, wherein the second sensor is carried by the housing.

4. The wearable electronic device as recited in claim 2, wherein one of the first sensor or the second sensor is carried by the housing and the other of the first sensor or the second sensor is carried by the band.

5. The wearable electronic device as recited in claim 1, wherein the property is selected from a group that includes a pH level of the water, a salinity of the water, a biological content of the water, a particulate level of the water, a chemical content of the water, and a temperature of the water.

6. The wearable electronic device as recited in claim 1, wherein the sensor engine further comprises a third sensor and the action comprises activating the third sensor.

7. The wearable electronic device as recited in claim 1, wherein the action comprises at least one of providing a notification to a user, activating one or more sensors of the wearable electronic device, or recording one or more external conditions.

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